

CLAIMS

We claim:

1 1. A urine collection device, comprising:

2 a urine collection receptacle configured to receive urine from a human and having an
3 inlet formed from an upper surface and a lower surface, wherein the upper surface is
4 positioned at an angle between about five degrees and about 35 degrees relative to the lower
5 surface;

6 a reservoir for collecting the urine received by the urine collection receptacle, wherein
7 the reservoir is portable and is in fluid communication with the urine collection receptacle
8 through a conduit; and

9 a pump capable of pumping a fluid without contacting the fluid, wherein the pump is
10 in contact with a portion of the conduit between the urine collection receptacle and the
11 reservoir for pumping urine from the urine collection receptacle to the reservoir.

1 2. The urine collection device of claim 1, further comprising a portable frame for
2 supporting the urine collection device.

1 3. The urine collection device of claim 2, wherein the portable frame further
2 comprises a plurality of wheels coupled to the frame.

1 4. The urine collection device of claim 2, wherein the portable frame further
2 comprises a container for holding cleaning products.

1 5. The urine collection device of claim 1, wherein the urine collection receptacle
2 is releasable coupled to the conduit using a quick release fitting.

1 7. The urine collection device of claim 1, wherein the upper surface is positioned
2 at an angle of about 25 degrees relative to the lower surface.

1 8. The urine collection device of claim 1, wherein the urine collection receptacle
2 further comprises a neck for collecting urine to be pumped to the reservoir, wherein the neck
3 extends below a lower edge of the inlet.

1 9. The urine collection device of claim 1, wherein the urine collection receptacle
2 further comprises a seal around a perimeter of an inlet of the urine collection receptacle.

1 10. The urine collection device of claim 1, wherein the urine collection receptacle
2 further comprises a handle for enabling a user to position the receptacle between the user's
3 legs.

1 11. The urine collection device of claim 1, wherein the conduit is attached to the
2 urine collection receptacle at a corner of the urine collection receptacle.

1 12. The urine collection device of claim 1, further comprising an on/off switch
2 coupled to a support device for supporting the urine collection receptacle when the urine

3 collection receptacle is not in use and configured to turn the pump on when the urine
4 collection receptacle is removed from the support device.

1 13. The urine collection device of claim 1, wherein the pump is a peristaltic pump.

1 14. The urine collection device of claim 1, wherein the conduit is a flexible
2 conduit.

1 15. The urine collection device of claim 14, wherein the conduit is transparent.

1 16. The urine collection device of claim 1, wherein the reservoir is connected to
2 the conduit with a quick release fitting.

1 17. The urine collection device of claim 1, wherein the reservoir is transparent and
2 marked to indicate the volume of urine contained in the reservoir.

1 18. The urine collection device of claim 1, wherein the reservoir includes an
2 exhaust port.

1 19. The urine collection device of claim 1, wherein the pump is operable at
2 varying speeds.

1 20. The urine collection device of claim 18, further comprising a check valve
2 coupled to the urine collection receptacle.

1 21. The urine collection device of claim 1, further comprising a safety switch for
2 preventing the pump from running while the pump is in an open position.

1 22. A urine collection device, comprising:
2 a urine collection receptacle configured to receive urine from a human and having an
3 inlet formed from an upper surface and a lower surface, wherein the upper surface is
4 positioned at an angle between about five degrees and about 35 degrees relative to the lower
5 surface;
6 a reservoir for collecting the urine received by the urine collection receptacle, wherein
7 the reservoir is portable and is in fluid communication with the urine collection receptacle
8 through a conduit; and
9 a peristaltic pump capable of pumping a fluid without contacting the fluid, wherein
10 the peristaltic pump is in contact with a portion of the conduit between the urine collection
11 receptacle and the reservoir for pumping urine from the urine collection receptacle to the
12 reservoir.

1 23. The urine collection device of claim 22, further comprising a portable frame
2 for supporting the urine collection device.

1 24. The urine collection device of claim 23, wherein the portable frame further
2 comprises a container for holding cleaning products.

1 25. The urine collection device of claim 22, wherein the urine collection
2 receptacle is releasable coupled to the conduit using a quick release fitting.

1 26. The urine collection device of claim 22, wherein the upper surface is
2 positioned at an angle of about 25 degrees relative to the lower surface.

1 27. The urine collection device of claim 22, wherein the urine collection
2 receptacle further comprises a neck for collecting urine to be pumped to the reservoir,
3 wherein the neck extends below a lower edge of a seal.

1 28. The urine collection device of claim 22, wherein the urine collection
2 receptacle further comprises a seal around a perimeter of an inlet of the urine collection
3 receptacle.

1 29. The urine collection device of claim 22, wherein the urine collection
2 receptacle further comprises a handle for enabling user to position the receptacle between the
3 user's legs.

1 30. The urine collection device of claim 22, wherein the conduit is attached to the
2 urine collection receptacle at a corner of the urine collection receptacle.

1 31. The urine collection device of claim 22, further comprising an on/off switch
2 coupled to a support device for supporting the urine collection receptacle when the urine
3 collection receptacle is not in use and configured to turn the pump on when the urine
4 collection receptacle is removed from the support device.

1 32. The urine collection device of claim 22, wherein the reservoir is connected to
2 the conduit with a quick release fitting.

1 33. The urine collection device of claim 22, wherein the reservoir is transparent
2 and marked to indicate the volume of urine contained in the reservoir.

1 34. The urine collection device of claim 22, further comprising a check valve
2 coupled to the urine collection receptacle.

1 35. The urine collection device of claim 22, further comprising a safety switch for
2 preventing the pump from running while the pump is in an open position.

1 36. The urine collection receptacle configured to receive urine from a human,
2 comprising:
3 a body having a cavity adapted to contain urine; and

1 an inlet in the body providing access to the cavity, wherein the inlet is formed from an
2 upper surface and a lower surface, wherein the upper surface is positioned at an angle
3 between about five degrees and about 35 degrees relative to the lower surface.

1 37. The urine collection receptacle of claim 36, wherein the urine collection
2 receptacle further comprises a neck for collecting urine to be pumped to the reservoir,
3 wherein the neck extends below a lower edge of the inlet.

1 38. The urine collection receptacle of claim 36, wherein the urine collection
2 receptacle further comprises a seal around a perimeter of the inlet of the urine collection
3 receptacle.

1 39. The urine collection receptacle of claim 36, wherein the urine collection
2 receptacle further comprises a handle coupled to an outer surface of the urine collection
3 receptacle for enabling a user to position the receptacle between the user's legs.

1 40. The urine collection receptacle of claim 36, wherein the conduit is attached to
2 the urine collection receptacle at a corner of the urine collection receptacle.

1 41. The urine collection receptacle of claim 36, further comprising a check valve
2 coupled to the urine collection receptacle.